

This is a review text file submitted electronically to MR.

Reviewer: Znojil, Miloslav

Reviewer number:

Address:

NPI, 250 68 Rez,
Czech Republic
znojil@ujf.cas.cz

Author: This line will be completed by the MR staff.

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Review text:

Comprehensive review of what is known or can be easily deduced about the solvable harmonic oscillator with a specific time-dependence of its parameters, viz., with an exponential growth of the mass and with the $1/t$ decrease of its frequency. Organized in two parts [viz., without and with the centrifugal-like interaction term of the Calogero (or, if you wish, Smorodinsky-Winternitz) type], scores of formulae are presented which characterize the classical solutions and the quantum invariant operator approach and the uncertainty relations and the density operator's behaviour etc.